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1	04	, 1	↑ ^{Ŋ`} [INTERNATION	IAL PRELIMIN	IARY EXAMI	NATION	BEPJECH CEN	LEH JONOIN
, 0]				(PCT Article 3	26 and Dula 7	O)		
				(FOT AITICLE S	36 and Rule 7	0)	14	
1		_	ent's file reference	FOR FURTHER A			ittal of International	
994	173 W	0		POR FURTHER A	Preliminary	Examination Ro	eport (Form PCT/IPEA/	/416)
1			lication No.	International filing date ((day/month/year)	1	day/month/year)	
	T/EP0		ent Classification (IPC) or na	25/04/2000	·-·-	29/04/1999)	
A61	IK31/	58						
AK	ZO NO	OBE	_ N.V.					
1.	This in	ntern s tran	ational preliminary exami smitted to the applicant a	nation report has been ccording to Article 36.	prepared by this Inte	rnational Preli	minary Examining A	uthority
	□ Table	his re een a see R	PRT consists of a total of eport is also accompanied mended and are the bas ule 70.16 and Section 60 exes consist of a total of	d by ANNEXES, i.e. sho is for this report and/or of the Administrative	eets of the description sheets containing re	ctifications ma	or drawings which ha de before this Autho	ave ority
3.	This re	eport	contains indications relat	ing to the following iter	ms:	-		
	ı	\boxtimes	Basis of the report					
	11		Priority					
1	III IV		Non-establishment of op Lack of unity of invention		velty, inventive step a	and industrial a	applicability	
	V	×	Reasoned statement un citations and explanation	der Article 35(2) with re	egard to novelty, inve	ntive step or ir	ndustrial applicability	/;
	VI		Certain documents cite	d				
	VII		Certain defects in the in	* *				
	VIII	×	Certain observations on	the international applic	cation			
Date	of subr	nissio	n of the demand		Date of completion of t	his report		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/03747

ŧ.	Ba	sis of the report	
1.	the and	receiving Office in I	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-9)	as originally filed
	Cla	ims, No.:	
	1-9		as originally filed
2.	With	h regard to the l ang guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
			blication of the international application (under Rule 48.3(b)).
		the language of a to 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule
3.	With inte	n regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	ne international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.		This report has bee considered to go be	n established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/03747

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Add	ditional observations, if n	ecessar	y:	
111.	. No	n-establishment of opir	nion wit	h regard	d to novelty, inventive step and industrial applicability
1.					n appears to be novel, to involve an inventive step (to be non- re not been examined in respect of:
		the entire international	applicat	ion.	
	×	claims Nos. 8, 9 (IA onl	y).		
be	caus	se:			
	×				said claims Nos. 8, 9 (IA only) relate to the following subject matter preliminary examination (<i>specify</i>):
		the description, claims of that no meaningful opin			icate particular elements below) or said claims Nos. are so unclear med (specify):
		the claims, or said claim could be formed.	ns Nos.	are so in	nadequately supported by the description that no meaningful opinior
		no international search	report h	as been	established for the said claims Nos
2.	and				ination cannot be carried out due to the failure of the nucleotide y with the standard provided for in Annex C of the Administrative
		the written form has not	been fu	urnished o	or does not comply with the standard.
		the computer readable	form ha	s not bee	en furnished or does not comply with the standard.
V.		soned statement unde tions and explanations			vith regard to novelty, inventive step or industrial applicability; ch statement
1.	Stat	ement			-
	Nov	relty (N)	Yes: No:	Claims Claims	
	Inve	entive step (IS)	Yes: No:	Claims Claims	
	Indu	strial applicability (IA)	Yes:	Claims	1-7,9

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/03747

No: Claims 8 (see Separate Sheet)

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

1. Section III

Claim 8 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(i) PCT). However, although not required under the provisions of the PCT, an opinion will be given with respect to novelty and inventive step.

2. Section V

2.1 Cited Documents

2.1a The following documents (D) are referred to in this Report:

D1: WO 94 04156 A (AKZO N.V.) 3 March 1994

D2: WO 93 21927 A (MEDICAL COLLEGE OF HAMPTON ROADS) 11 November 1993

D3: WO 97 49407 A (AKZO NOBEL N.V.) 31 December 1997

D4: SCHOONEN W.G.E. ET AL: 'Human progesterone receptor A and B isoforms in CHO cells. II. Comparison of binding, transactivation and EDD50 values of several synthetic (anti)progestagens in vitro in CHO and MCF-7 cells and in vivo in rabbits and rats' J. STEROID BIOCHEM. MOL. BIOL., vol. 64(3), 1998, pages 157-170

Unless otherwise indicated reference is made to the passages cited in the Search Report.

- 2.1b The content of the cited documents is the following:
 - i) document D1 discloses the combination of a multi-phase progestin preparation and preferentially 14 sequential dosage units of a anti-progestin compound, e.g. Org 33245, for use in contraception. Decreased bleeding is mentioned as additional advantage (cf. p. 2, l. 33);
 - ii) document D2 discloses regimens of progestin-only preparations and intermittent anti-progestin, e.g. once every 30 days. Org 31710 is explicitly mentioned as a preferred anti-progestin. Decreased bleeding is mentioned as additional advantage (cf. p. 3, II. 13-17);
 - iii) document D3 discloses regimens of progestin-only preparations and

intermittent anti-progestin, e.g. twice every 30 days for use as contraceptive and/or for HRT. Org 31710 is explicitly mentioned as a preferred anti-progestin. Decreased bleeding is mentioned as additional advantage (cf. p. 2, II. 13-16);

iv) in document D4 the anti-progestinic activity of Org 33245 is compared to that of Org 31710, in vitro and in vivo. It is shown that the former is more active than the latter.

2.2 Art 33(2) PCT (Novelty)

The subject-matter of present claims 3 and 6 does not meet the requirements of Art 33(2) PCT since it is anticipated by the disclosure of document D1.

n.b. Contraception is not considered as a method of treatment of the body by therapy, since pregnancy is not a disease. Therefore a claim formulated following the Swiss format (i.e. claims 1-4) are considered as directed to a non-medical use of the named compositions and therefore as not-novel if the compositions themselves are known. Claim 7 (and 9, as far as it refers to 7) are considered as non-medical method claims.

2.3 Art 33(3) PCT (Inventive step)

The subject-matter of present claims 1, 2, 4, 5 and 7-9 does not meet the requirements of Art 33(3) PCT.

Documents D2 and D3 constitute the closest prior art. The technical problem to be solved can be formulated as "how to find a contraceptive preparation alternative to that of D2 and D3". The disclosure of document D4 clearly suggests to the skilled person as a possible solution the use Org 33245 instead of Org 31710, thereby rendering the subject-matter of the aforementioned claims obvious.

2.4 Art 33(4) PCT (Industrial applicability)

As stated above, no opinion is given on the question of whether present claim 8 is industrially applicable since its patentability is inter alia dependent upon its formulation as well as upon national and regional laws and no unifying criteria is provided in this field by the PCT.

3. Section VIII

The term "intermittent" in claims 5 and 7-9 is not clear.

PATENT COOPERATION TREATY

From	the	IN	TERN	ΙΔΤ	ION	ΔI	RI.	RE	Δ١.

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Date of mailing (day/month/year)

TOTAL DOTEAC

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US Department of Commerce
United States Patent and Trademark
Office, PCT
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ETATS-UNIS D'AMERIQUE in its capacity as elected Office

International application No.
PCT/EP00/03747

International filing date (day/month/year)
25 April 2000 (25.04.00)

Applicant

COELINGH BENNINK, Herman, Jan, Tijmen et al

	ţ.	<u>;;</u> =:
1.	The designated Office is hereby notified of its election made:	
	X in the demand filed with the International Preliminary Examining Authority on:	
	28 November 2000 (28.11.00)	
		an nagara
	in a notice effecting later election filed with the International Bureau on:	
		, · · ·
2.	The election X was	
	was not	
	made before the expiration of 19 months from the priority date or, where Rule 32 appli Rule 32.2(b).	es, within the time limit under
		<i>:</i>

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Authorized officer

R. E. Stoffel

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 November 2000 (09.11.2000)

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(10) International Publication Number WO 00/66129 A3

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(NL). SCHOONEN, Wilhelmus, Gerardus, Eduardus, Joseph [NL/NL]; Parklaan 16, NL-5345 BV Oss (NL).

(21) International Application Number: PCT/EP00/03747

(74) Agent: KRAAK, Hajo; P.O. Box 20, NL-5340 BH Oss

(NL).

(81) Designated States (national): AL, AU, BA, BB, BG, BR,

CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU,

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(71) Applicant (for all designated States except US): AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 AB Arnhem (NL).

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COELINGH BEN-NINK, Herman, Jan, Tijmen [NL/NL]; Melvill van Carnbeelaan 38, NL-3971 BE Driebergen (NL). DECK-ERS, Godefridus, Hermanus, Johanna [NL/NL]; van Limburg Stirumstraat 34, NL-5344 HW Oss (NL). DOLS, Paul, Peter, Marie, Antonius [NL/NL]; Ringelenburg 1, NL-5346 VR Oss (NL). ORLEMANS, Everardus, Otto, Maria [NL/NL]; Wolvespoor 12, NL-5343 XM Oss

Published:

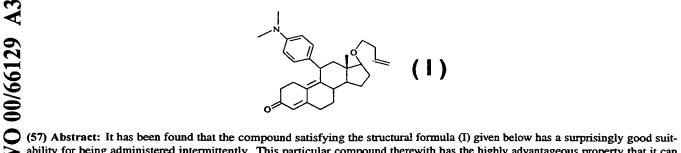
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With international search report.

(88) Date of publication of the international search report: 19 April 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF ANTIPROGESTAGENS IN COMBINED THERAPY



ability for being administered intermittently. This particular compound therewith has the highly advantageous property that it can be used in the specific medical application of combined therapy with progestagen-only preparations.

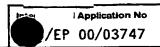


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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61K

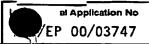
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	WO 94 04156 A (AKZO N.V.) 3 March 1994 (1994-03-03)	6,7
A	page 3, line 20-22; claims 1,4,8 page 2, line 9,10 page 3, line 36-38	1,2,4,5
Y	WO 93 21927 A (MEDICAL COLLEGE OF HAMPTON ROADS) 11 November 1993 (1993-11-11) cited in the application page 4, line 26-34; claims 1-5,9-16,20,21 page 9, line 32-35 page 10, line 12-17 page 7, line 20-31	1-9

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Date of the actual completion of the international search	Date of mailing of the international search report
20 December 2000	29/12/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Kanbier, D

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
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A	WO 93 17686 A (SCHERING AG) 16 September 1993 (1993-09-16) page 4, line 14-16 page 5, line 28-36 page 7, line 3-7 page 10, line 19-23 page 9, line 31 -page 10, line 9	1,2,4-9
A	EP 0 549 041 A (AKZO N.V.) 30 June 1993 (1993-06-30) cited in the application claim 6; example 1	1,3,5-8

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